

Applicant: Galvin, Katherine M., et al.

Title: METHODS AND COMPOSITIONS FOR THE DIAGNOSIS
AND TREATMENT OF CARDIOVASCULAR AND TUMORIGENIC
DISEASE USING 4941

Attorney/Agent: Jean M. Silveri

Docket No.: MPI99-283PIRCNIM

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gggagtcgac ccacgcgtcc ggtagcctgg tgetctttct c atg gct tca ccc agc 56
Met Ala Ser Pro Ser 5
5

ctc ccg ggc agt gac tgc tcc caa atc att gat cac agt cat gtc ccc 104
Leu Pro Gly Ser Asp Cys Ser Gln Ile Ile Asp His Ser His Val Pro 20
10 15

gag ttt gag gtg gcc acc tgg atc aaa atc acc ctt att ctg gtg tac 152
Glu Phe Glu Val Ala Thr Trp Ile Lys Ile Thr Leu Ile Leu Val Tyr 35
25 30

ctg atc atc ttc gtg atg ggc ctt ctg ggg aac agc gcc acc att cgg 200
Leu Ile Ile Phe Val Met Gly Leu Leu Gly Asn Ser Ala Thr Ile Arg 45
40

gtc acc cag gtg ctg cag aag aaa gga tac ttg cag aag gag gtg aca 248
Val Thr Gln Val Leu Gln Lys Lys Gly Tyr Leu Gln Lys Glu Val Thr 65
55 60

gac cac atg gtg agt ttg gct tgc tcg gac atc ttg gtg ttc ctc atc 296
Asp His Met Val Ser Leu Ala Cys Ser Asp Ile Leu Val Phe Leu Ile 75
70 80

ggc atg ccc atg gag ttc tac agc atc atc tgg aat ccc ctg acc acg 344
Gly Met Pro Met Glu Phe Tyr Ser Ile Ile Trp Asn Pro Leu Thr Thr 95
90 100

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FIG. 1A

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392 tcc agc tac acc ctg tcc tgc aag ctg cac act ttc ctg ttc gag gcc
 Ser Ser Tyr Thr 105 Leu Ser Cys Lys Leu His Thr Phe Leu 115
 110

440 tgc agc tac gct acg ctg ctg cac ctg ctg aca ctg agc ttt gag cgc
 Cys Ser Tyr Ala Thr 120 Leu Leu His Val Leu Thr Phe Ser Glu Arg
 125

488 tac atc gcc atc tgt cac ccc ttc agg tac aag gct gtg tgc gga cct
 Tyr Ile Ala Ile Cys His Pro Phe Arg Tyr Lys Ala Val Ser Gly Pro
 135 140 145

536 tgc cag gtg aag ctg ctg att ggc ttc gtc tgg gtc acc tcc gcc ctg
 Cys Gln Val Lys Leu 155 Ile Gly Phe Val Trp Val Thr Ser Ala Leu
 150 160 165

584 gtg gca ctg ccc ttg ctg ctg ttt gcc atg ggt act gag tac ccc ctg gtg
 Val Ala Leu Pro 170 Leu Leu Phe Ala Met Gly Thr Glu Tyr Pro Leu Val
 175 180

632 aac gtg ccc agc cac cgg ggt ctg act tgc aac cgc tcc agc acc cgc
 Asn Val Pro Ser His Arg Gly Leu Thr Cys Asn Arg Ser Ser Thr Arg
 185 190 195

680 cac cac gag cag ccc gag acc tcc aat atg tcc atc tgt acc aac ctg
 His His Glu Gln Pro Glu Thr Ser Asn Met Ser Ile Cys Thr Asn Leu
 200 205 210

FIG. 1B

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tcc agc cgc tgg acc gtg ttc cag tcc agc atc ttc ggc gcc ttc gtg	728
Ser Ser Arg Thr Val Phe Phe Gln Ser Ser Ile Phe Phe Val	
215 220 225	
gtc tac ctc gtg gtc ctg ctc tcc gta gcc ttc atg tgc tgg aac atg	776
Val Tyr Leu Val Val Leu Leu Ser Val Ala Phe Met Cys Trp Asn Met	
230 235 240 245	
atg cag gtg ctc atg aaa agc agc aag ggc tgc ctg ggc ggc acg	824
Met Gln Val Leu Met Lys Ser Ser Gln Lys Gly Ser Leu Ala Gly Thr	
250 255 260	
cgg cct ccg cag ctg agg aag tcc gag agc gag agc acc gcc	872
Arg Pro Pro Gln Leu Arg Lys Ser Gln Ser Glu Glu Ser Arg Thr Ala	
265 270 275	
agg agg cag acc atc atc ttc ctg agg ctg att gtt gtg aca ttg gcc	920
Arg Arg Gln Thr Ile Ile Phe Leu Arg Leu Ile Val Thr Leu Ala	
280 285 290	
gta tgc tgg atg ccc aac cag att cgg agg atc atg gct gcg gcc aaa	968
Val Cys Trp Met Pro Asn Gln Ile Arg Arg Ile Met Ala Ala Lys	
295 300 305	
ccc aag cac gac tgg acg agg tcc tac ttc cgg gcg tac atg atc ctc	1016
Pro Lys His Asp Trp Thr Arg Ser Tyr Phe Arg Ala Tyr Met Ile Leu	
310 315 320 325	

FIG. 1C

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ctc ccc ttc tcg gag cag ttt ttc tac ctc agc tcg gtc atc aac ccg	1064
Leu Pro Phe Ser Thr Phe Phe Tyr Leu Ser Ser Val Ile Asn Pro	330 335 340
ctc ctg tac acg gtg tcc tcg cag cag ttt cgg cgg gtg ttc gtg cag	1112
Leu Leu Tyr Thr Val Ser Ser Gln Gln Phe Arg Arg Val Phe Val Gln	345 350 355
gtg ctg tgc tgc cgc ctg tcg ctg cag cag cac gcc aac cac gag aag cgc	1160
Val Leu Cys Cys Arg Leu Ser Ser Leu Gln His Ala Asn His Glu Lys Arg	360 365 370
ctg cgc gta cat gcg cac tcc acc acc gac agc gcc cgc ttt gtg cag	1208
Leu Arg Val His Ala His Ser Thr Thr Asp Ser Ala Arg Phe Val Gln	375 380 385
cgc ccg ttg ctg ttc gcg tcc cgg cgc cag tcc tct gca agg aga act	1256
Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser Ser Ser Ala Arg Thr	390 395 400 405
gag aag att ttc tta agc act ttt cag agc gag gcc gag ccc cag tct	1304
Glu Lys Ile Phe Leu Ser Thr Phe Gln Ser Ser Glu Ala Glu Pro Gln Ser	410 415 420
aag tcc cag tca ttg agt ctc gag tca cta gag ccc aac tca ggc gcg	1352
Lys Ser Gln Ser Leu Ser Leu Glu Ser Ser Leu Glu Pro Asn Ser Gly Ala	425 430 435

FIG. 1D

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aaa cca gcc aat tct gct gca gag aat ggt ttt cag gag cat gaa gtt 1400
 Lys Pro Ala Asn Ser Ala Ala Glu Asn Gly Phe Gln Glu His Glu Val
 440 450
 tgaatgtcaa gcgagggagc cttgagtggg aactggccct ccagccctaa gaaaacgtca 1460
 ctctcactct gcagtctcaa actctgcccc catcagggat ggaatggaca ctggaggctt 1520
 tacaaaaggc agatgccccac ctcagtgact tctaaggact gactctgcca gcctggcctt 1580
 gactccggtt acacagacat ggggggtgaac ttctactcca cctccttctt tcaagtacat 1640
 actgaaaaatt cagtcaagct gaatttattc agaatgcttt accgagctct ttcatatttt 1700
 gcacaggaaac aaaagagaac acggactccc gctccctacc cagaataaaa ggacacccag 1760
 aagaaactca ctcagggagg tgggggggttg ggggcgaggg ctggaagaac aatgcaggag 1820
 ggggtggcat ctcttcagc ttcagcagtg tgccgacaag agggctaatt tgaggaaacag 1880
 gatggtggtg cggagccctg gcctgagggc cgaggcagaa cttccccctt tcttgggcct 1940
 tggcccgtta caaagagggg tgttgcagca gctgatgcaa actgagttca gtttccctgg 2000
 ggagcagaag gactgggtacc cggcagaggc gatgagacag gccgctgatg atgcacagga 2060
 cttgcggtac atgatccccg cactttgctg catcacttct ttctgacaca tgtcttgaac 2120

FIG. 1E

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gttcaccgtg caattcaca tgaactcggg ggaggagcag tcgttggtca gctggaattc 2180
ttcacactgg tagcactgga tttgcagcgc aaagcccttg ggactccccg ggatgccccg 2240
gtgctatctt cgccttcctt ccgagcctt gcagcagggtg gtgcgggaga ccgcttgccc 2300
gccggagtgc gttggtgccc ccgcccccaa tccgcacatt cccatcccct ttccgcacat 2360
ccttagggag catccatttc cgtggaatc gcctcctaag cttagctcc tcttcaccct 2420
tttctcccc ggccacttct gggggcagct ctctcacgcc gggacgcaga tcatttaatt 2480
ctgcacgcgc tcngcagagc tggctctgta aggggcttaa atgacttt 2528

FIG. 1F

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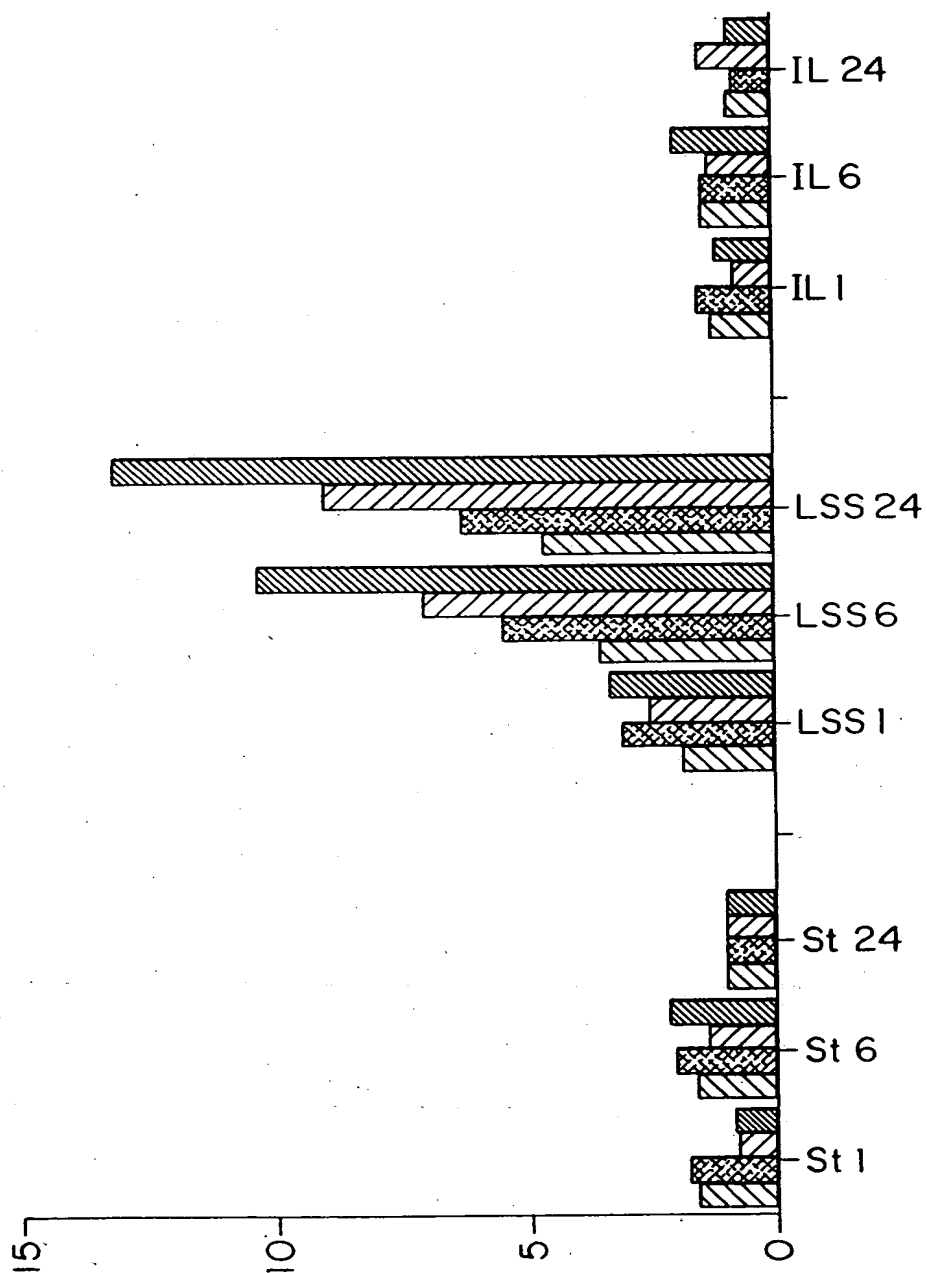


FIG. 2

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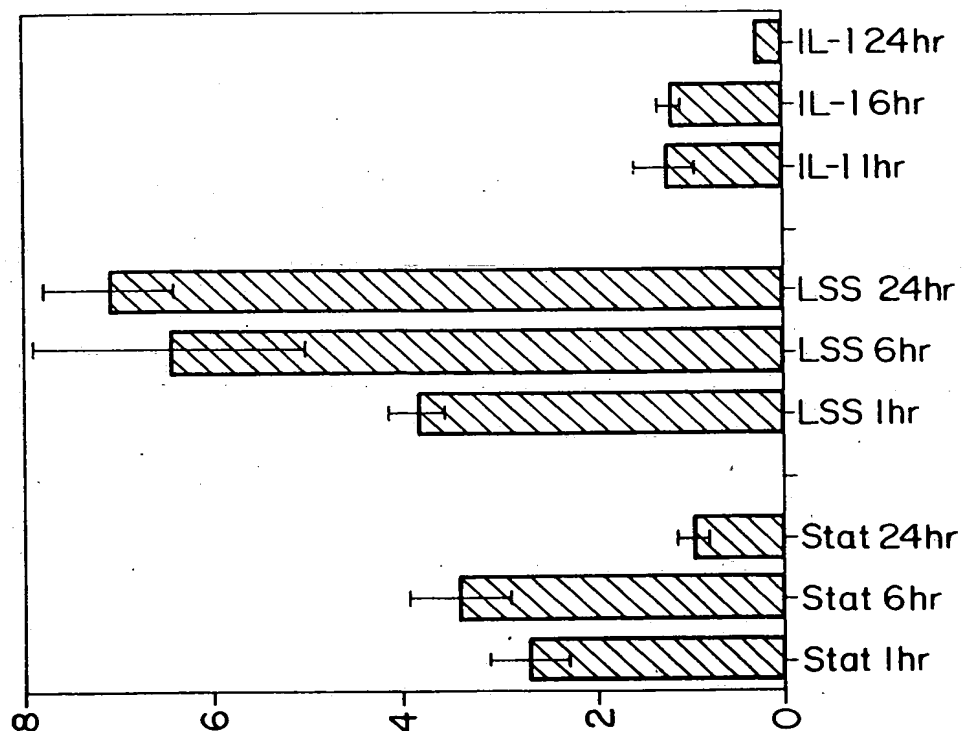
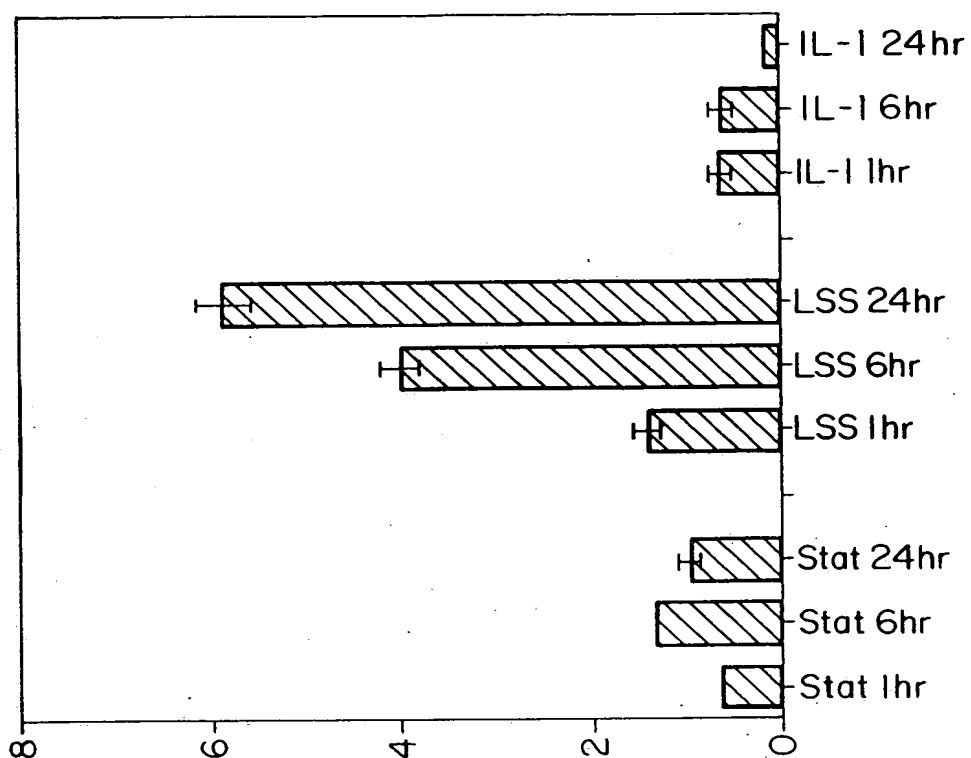


FIG. 3

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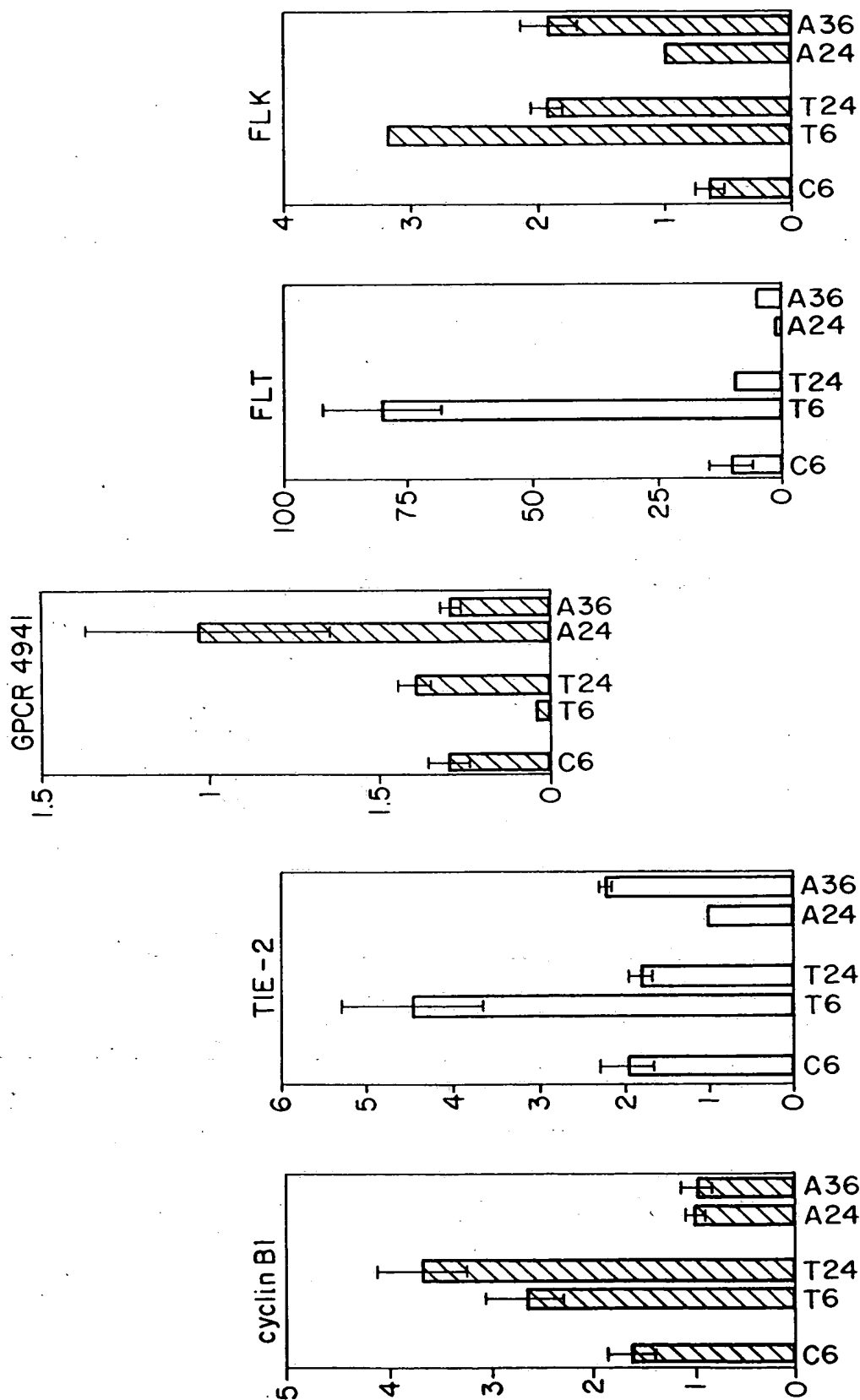


FIG. 4

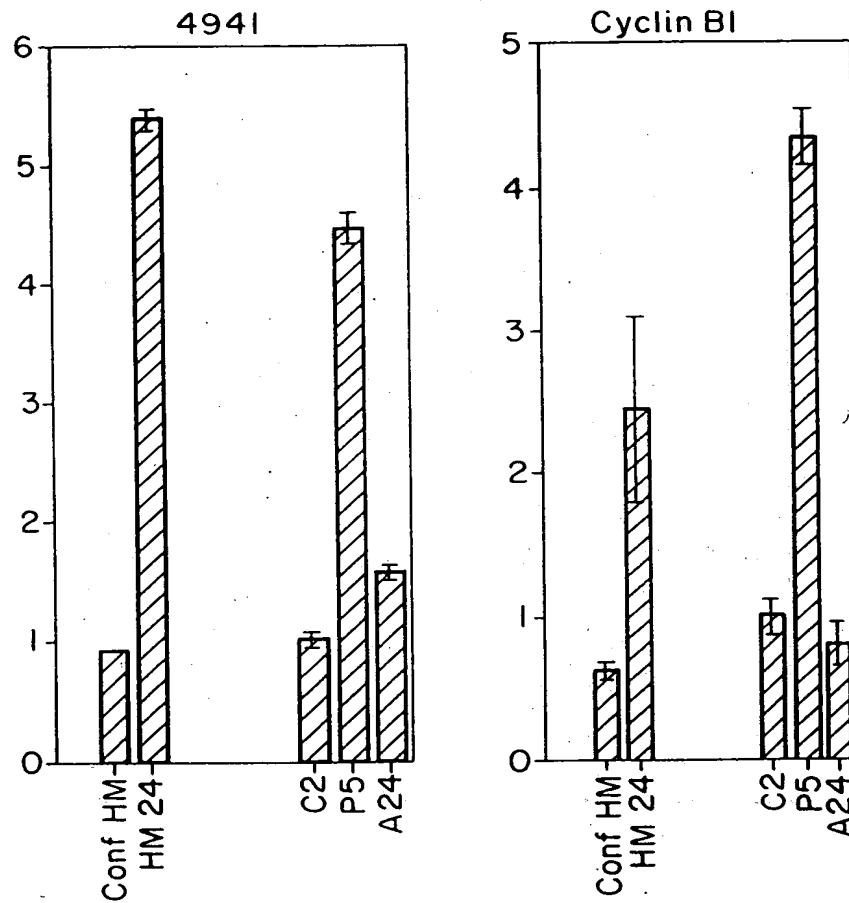
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*FIG. 5*

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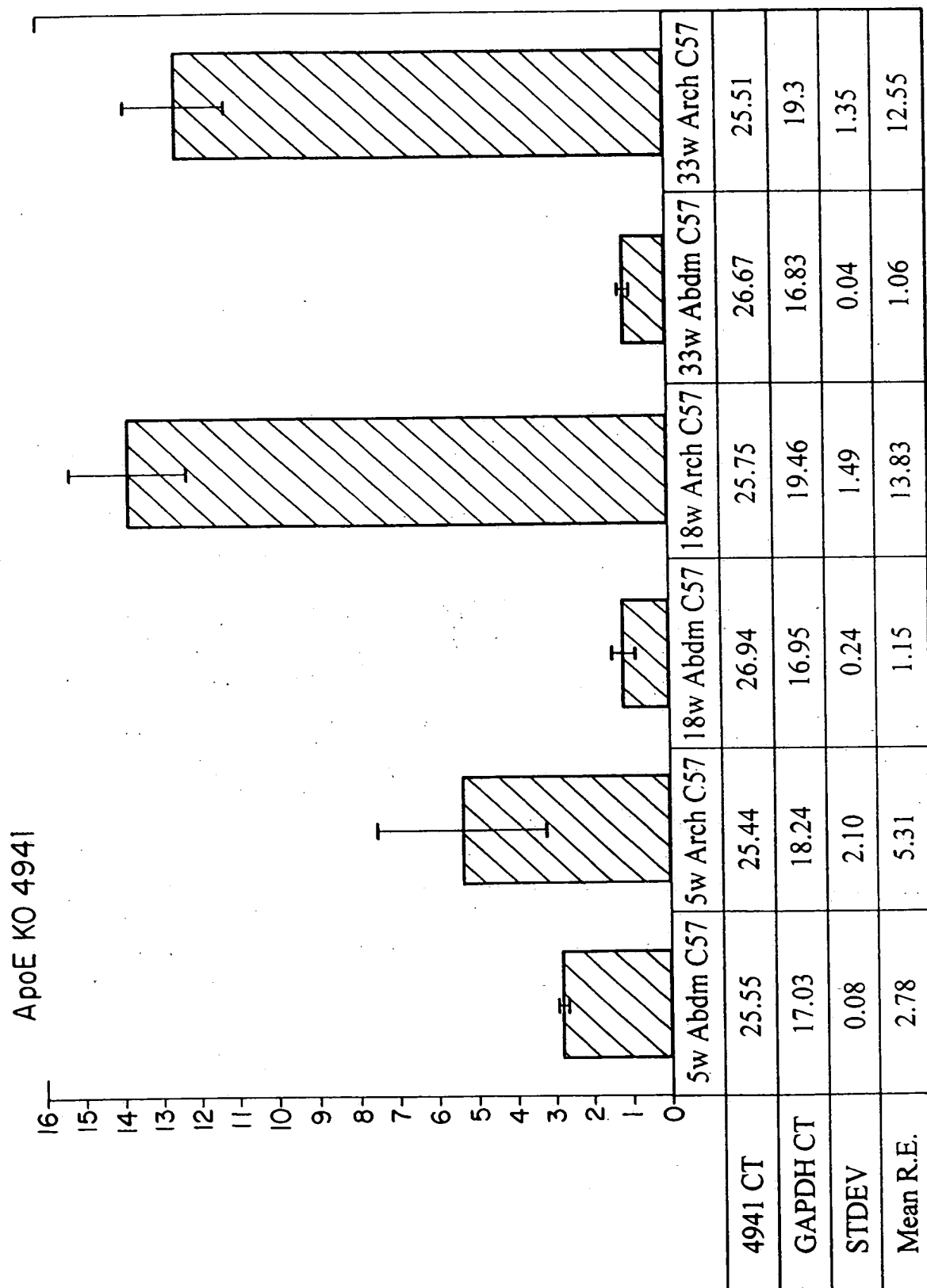


FIG. 6

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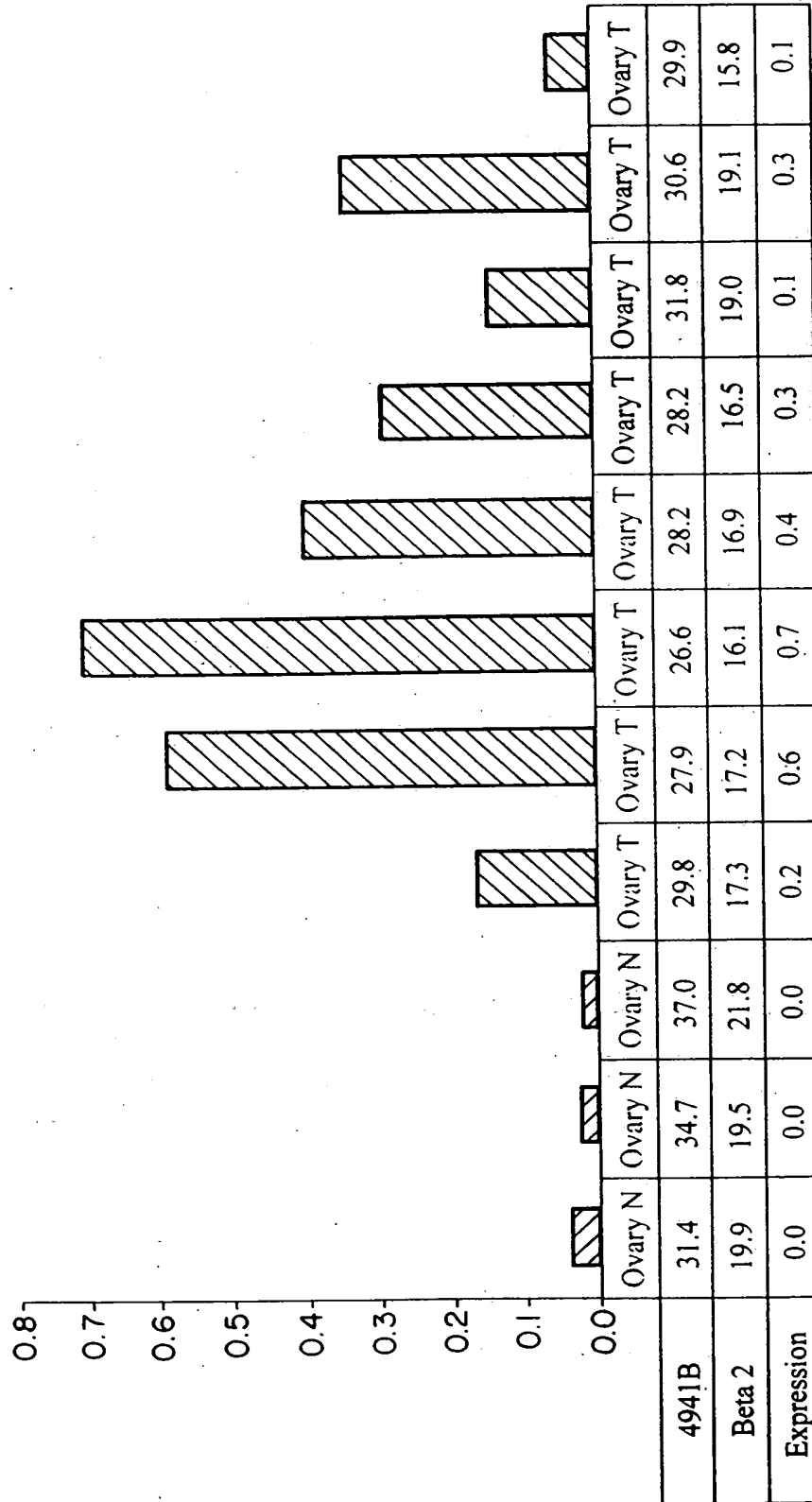


FIG. 7A

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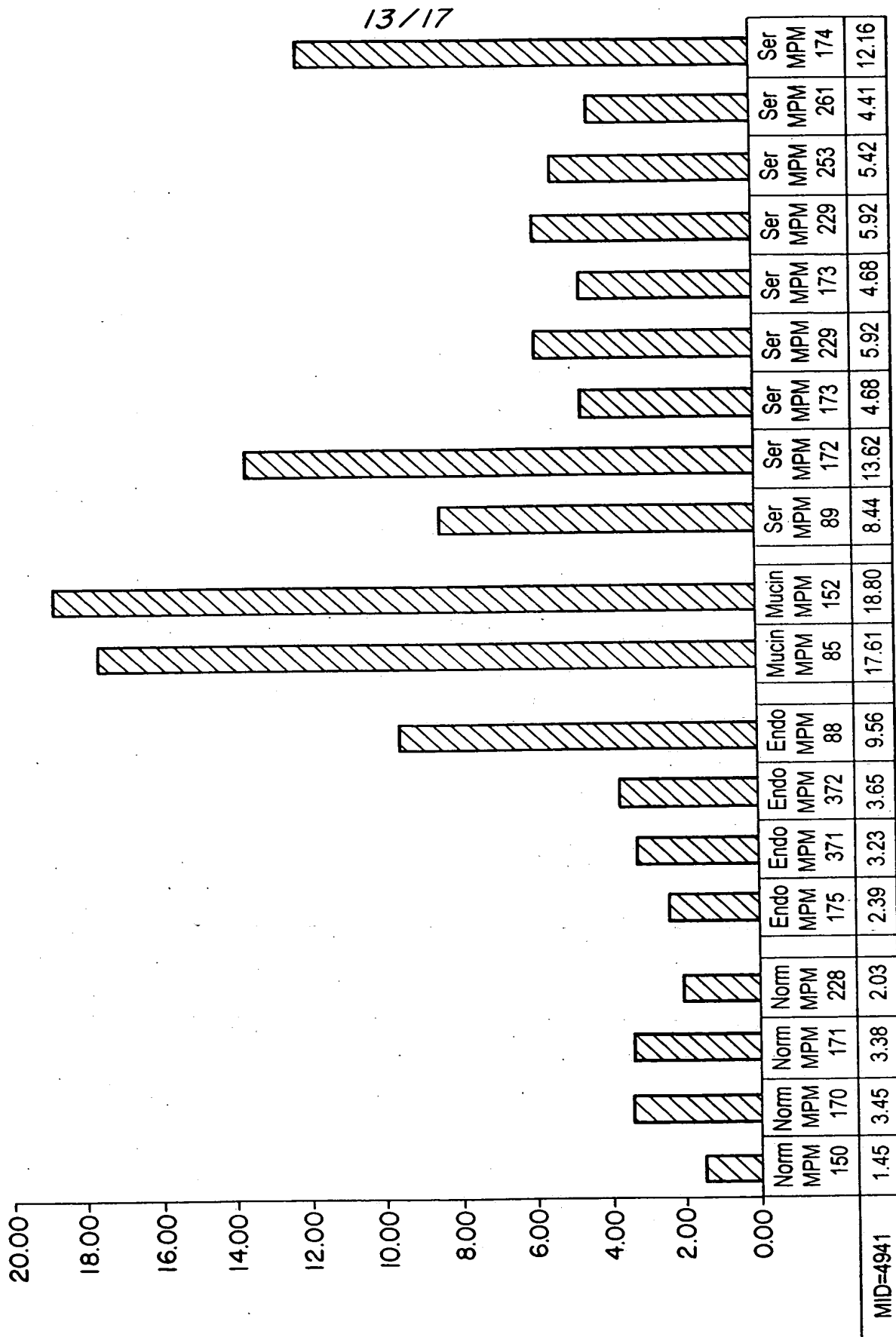


FIG. 7B

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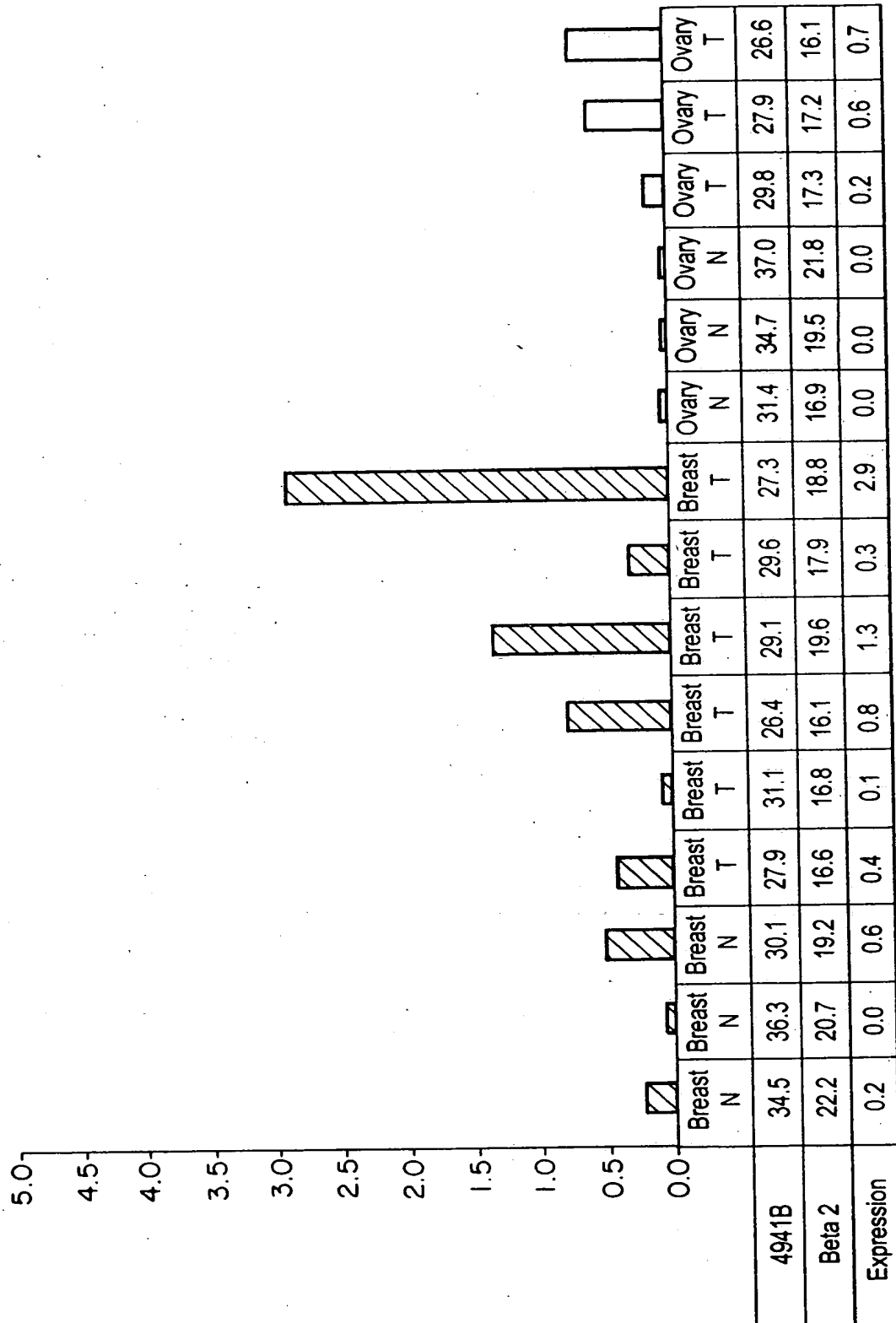


FIG. 8A

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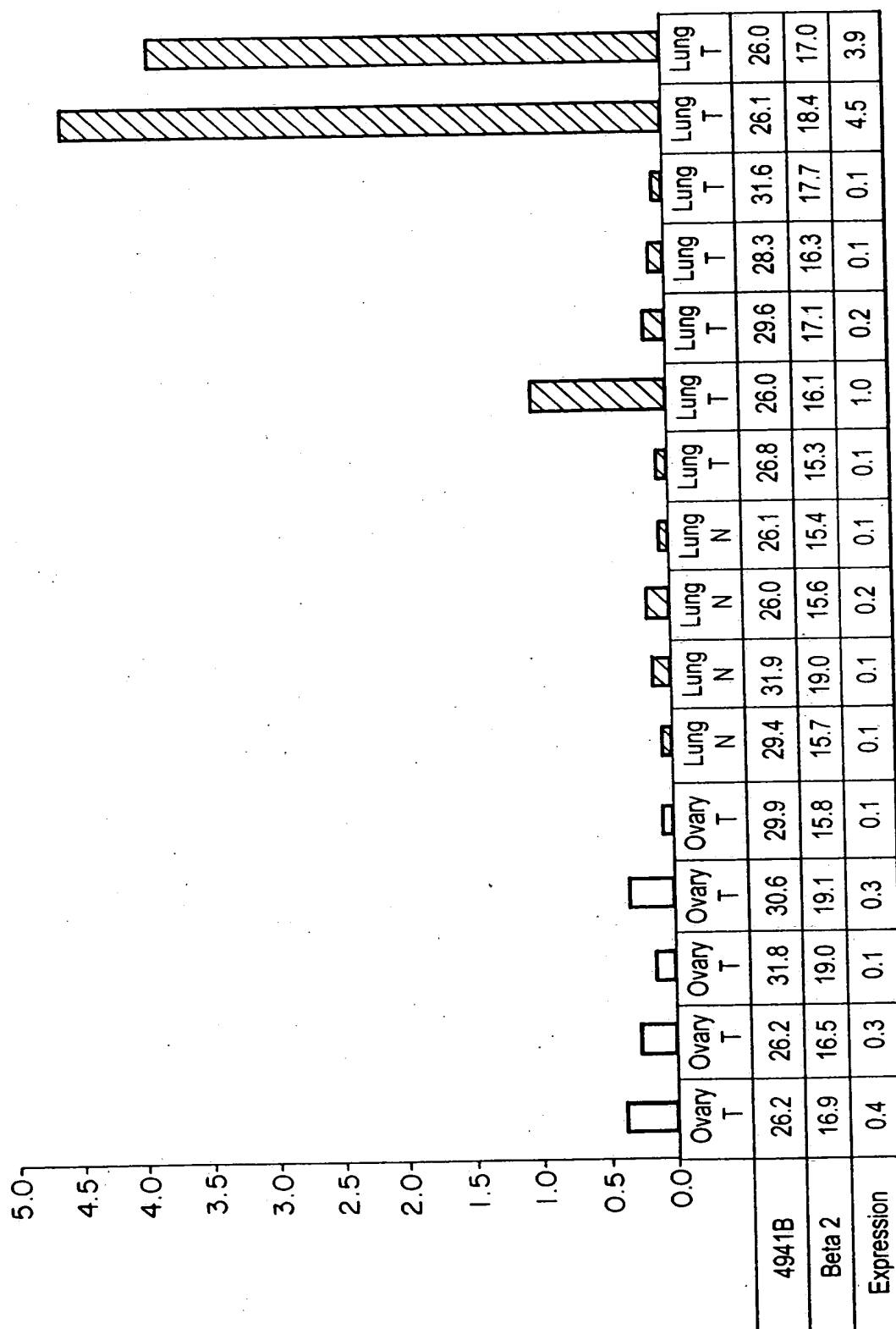


FIG. 8B

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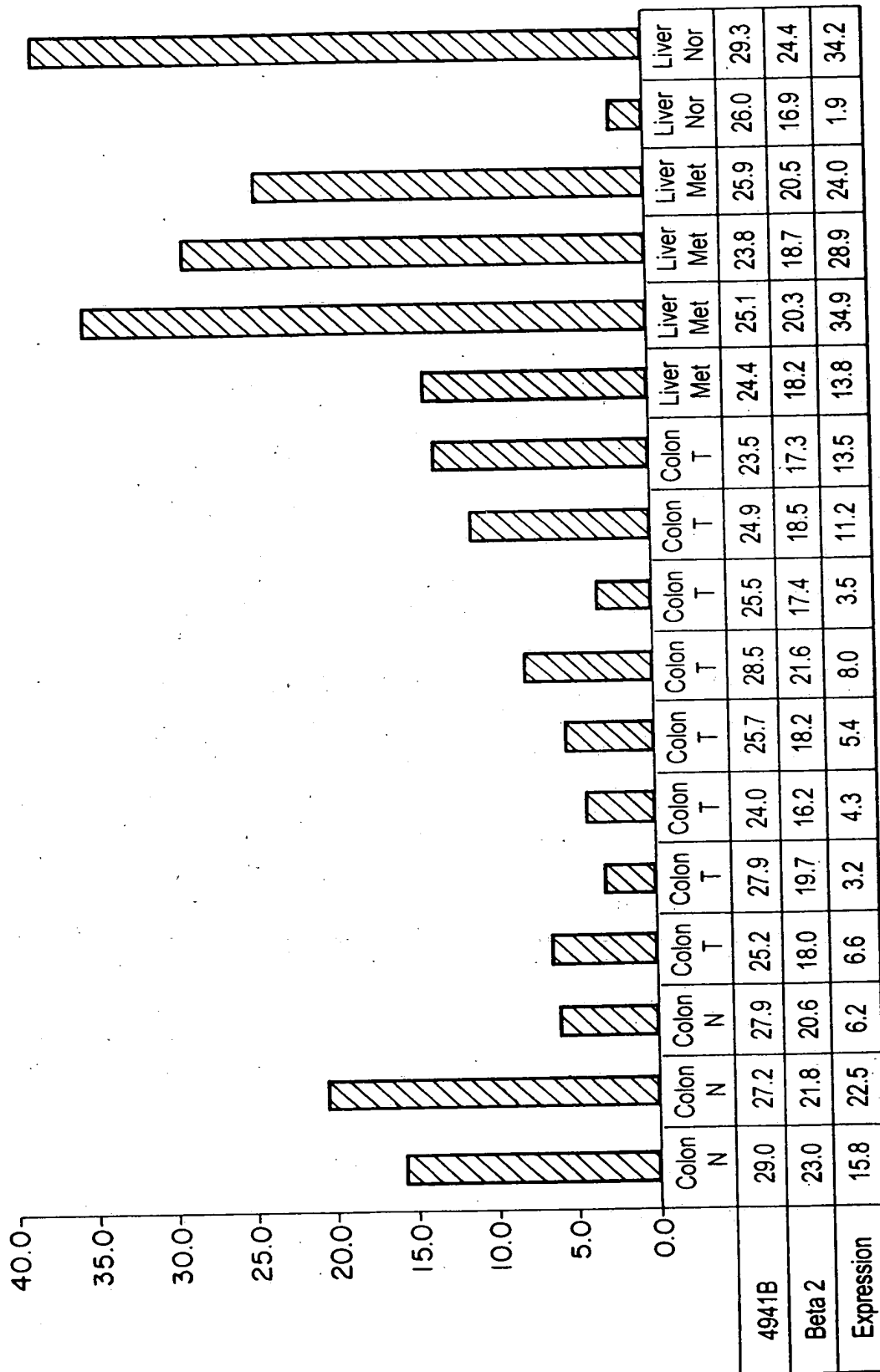


FIG. 8C

